

**SECRET**

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Chief, Space Maintenance & Facilities Branch

11 December 1959

Chief, Utilities-Engineering Branch

Air Conditioning Modifications -

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1. A recent inspection of the air conditioning system at the subject location disclosed that the thermal insulation inside the air handling unit and supply plenum has deteriorated to the extent that it is disintegrating and peeling away from the unit and plenum walls. The resultant loose fibre and dust is being picked up in the airstream and distributed throughout the building.
2. Deterioration may be attributed to the fact that no vapor barrier was provided initially on the insulation surface to prevent moisture from entering and saturating the insulating material.
3. The following measures are recommended in order to correct existing conditions:
  - (a) Completely remove all internal thermal insulation in the air handling unit, and supply plenum, and install an access door (30" H x 24" W) on the end of the supply plenum nearest the outside wall. Edges of door should be gasketed and tight fitting.
  - (b) Interior metal surfaces of air handler and supply plenum are to be cleaned and painted with a corrosion resistant vinyl enamel or mastic.
  - (c) All uninsulated exterior surfaces of air handler and supply plenum are to be covered with at least 1½" thick glass fibre insulation and coated externally with a mastic water repellant vapor barrier. All joints between insulating sheets are to be properly sealed with mastic
4. The above work is believed to be within the capabilities of PRS group forces. Inasmuch as the building heating will have to be shut down to allow work within the air handler, it is recommended that accomplishment be scheduled after the heating season.

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